

## COMBINED DECLARATION AND POWER OF ATTORNEY FOR UTILITY OR DESIGN PATENT APPLICATION

As a below-named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if more than one name is listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

### IMPROVED PRODUCTIVITY CATALYSTS AND MICROSTRUCTURE CONTROL

the specification of which (check only one item below):

- ☒ is attached hereto, and was amended on (if applicable).
- ☐ was filed as United States Application Number \_\_\_\_\_  
on \_\_\_\_\_  
and was amended on \_\_\_\_\_ (if applicable).
- ☐ was filed as PCT International Application Number \_\_\_\_\_  
on \_\_\_\_\_  
and was amended on \_\_\_\_\_ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above;

I acknowledge the duty to disclose to the office all information known to me to be material to patentability as defined in title 37, Code of Federal Regulations, Sec. 1.56 (as amended effective March 16, 1992);

I hereby claim foreign priority benefits under Title 35, United States Code, §§119 (a)-(d), 172 or 365 of any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed:

PRIOR FOREIGN/PCT APPLICATION(S) AND ANY PRIORITY CLAIMS UNDER 35 U.S.C. §§119(a)-(d), 172 or 365:			
COUNTRY (if PCT, Indicate "PCT")	APPLICATION NUMBER	DATE OF FILING (day, month, year)	PRIORITY CLAIMED UNDER 35 U.S.C. §§119, 172 OR 365
			YES_ NO_
			YES_ NO_
			YES_ NO_
			YES_ NO_
			YES_ NO_
			YES_ NO_
			YES_ NO_
			YES_ NO_

I hereby appoint the following attorneys and agent(s) to prosecute said application and to transact all business in the Patent and Trademark Office connected therewith and to file, prosecute and to transact all business in connection with international applications directed to said invention:

Robert S. Swecker	19,885	William C. Rowland	30,888	Kenneth B. Leffler	36,075
Platon N. Mandros	22,124	T. Gene Dillahunt	25,423	Fred W. Hathaway	32,236
Benton S. Duffett, Jr.	22,030	Patrick C. Keane	32,858	Wendi L. Weinstein	34,456
Norman H. Stepno	22,716	B. Jefferson Boggs, Jr.	32,344	Mary Ann Dillahunt	34,576
Ronald L. Grudziecki	24,970	William H. Benz	25,952	Donna M. Meuth	36,607
Alan E. Kopecki	25,813	Peter K. Skiff	31,917	Mark R. Kresloff	42,766
Regis E. Slutter	26,999	Richard J. McGrath	29,195	Nhat D. Phan	39,581
Samuel C. Miller, III	27,360	Matthew L. Schneider	32,814	Cindy A. Lynch	38,699
Robert G. Mukai	28,531	Michael G. Savage	32,596	Claude A.S. Hamrick	22,586
George A. Hovanec, Jr.	28,223	Charles F. Wieland III	33,096		
James A. LaBarre	28,632	Bruce T. Wieder	33,815		
E. Joseph Gess	28,510	Todd R. Walters	34,040		
R. Danny Huntington	27,903	Ronni S. Jillions	31,979		
Eric H. Weisblatt	30,505	Harold R. Brown III	36,341		
James W. Peterson	26,057	Allen R. Baum	36,086		
Teresa Stanek Rea	30,427	Brian P. O'Shaughnessy	32,747		

All practitioners associated with  
**Customer No. 21839**

Address all correspondence to: BURNS, DOANE, SWECKER & MATHIS, L.L.P.  
Customer Number **21839**  
P.O. Box 1404  
Alexandria, Virginia 22313-1404

Address all telephone calls to: Nhat D. Phan at (703) 836-6620.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

<b>Full Name of Sole or First Inventor</b>	Peter Borden Mackenzie
Signature	
Date	
Residence (City, State, Country)	Kingsport, TN (USA)
Citizenship	USA
Post Office Address	1040 Sussex Drive, Kingsport, TN 37660 (USA)
<b>Full Name of Second Joint Inventor, If Any</b>	Leslie Shane Moody
Signature	
Date	
Residence (City, State, Country)	Johnson City, TN (USA)
Citizenship	USA
Post Office Address	3322 Pine Timbers Drive, Johnson City, TN 37604 (USA)

<b>Full Name of Third Joint Inventor, If Any</b>	James Allen Ponasik, Jr.
Signature	
Date	
Residence (City, State, Country)	Blountville, TN (USA)
Citizenship	USA
Post Office Address	167 Polo Drive, Blountville, TN 37617 (USA)
<b>Full Name of Fourth Joint Inventor, If Any</b>	Amy Kathryn Farthing
Signature	
Date	
Residence (City, State, Country)	Gray, TN (USA)
Citizenship	USA
Post Office Address	348 Wiltshire Drive, Gray, TN 37615 (USA)

☐ Additional inventors are being named on the Supplemental Additional Inventor(s) Sheet(s) attached hereto.